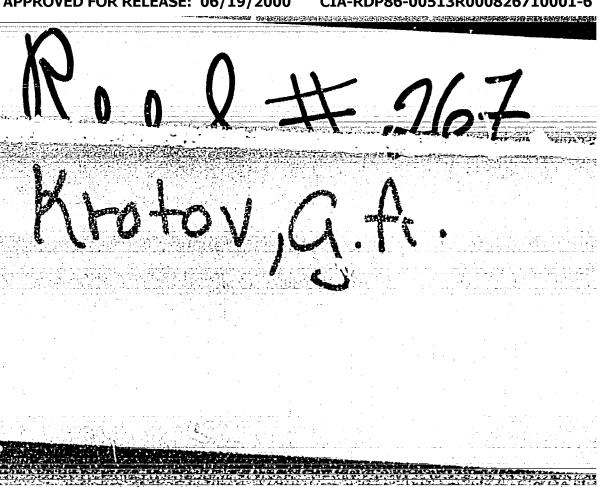
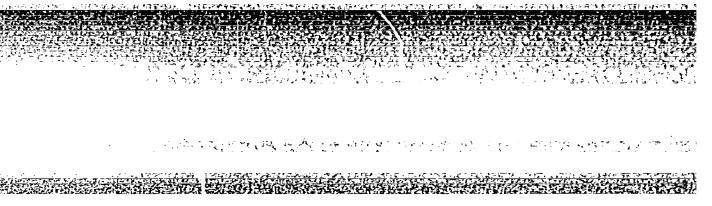


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CIA-RDP86-00513R000826710001-6







Magnetica, Merrestriel-Donets Basin

Magnetic observatory in the Donets Sesin for pine surveylor agen, (Thaty), Wilki, 22,19

9. Monthly List of Russian Accessions, Library of Congress, Cital 1957 Unclear APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6"

KROTOV, G. A.

"Study of Behavior of Magnetic Declination of the Donbass Meridian". Nauch tr. Mosk. gorn. in-ta, No. 12, pp 16-37, 1954.

The magnetic orientation of Donbass mines was studied in connection with the variations of the meridional declination. Because the Makeyevskaya Declination Observatory was destroyed during the war, a possibility was established of using the Odessa and Mizhne-Devitskaya Observatory using magnetic measurements carried out at Donbass. A survey showed that variations of declinations at the mines are the same at 1,000 m dept and on the surface. (RZhAstr, No. 1, 1956)

SO: Sum No 884, 9 Apr 1956

KROTOV, Gavriil Alekoeyevich; TYUPKIN, S.N., otvetstvennyy redaktor; SLAVOROSOV, A.Kh., redaktor izdatel stva; MADEINSKAYA, A.A., tekhnicheskiy redaktor

[Underground surveying in drawn and mined workings] Marksheiderskais stemks ochistnykh i nareznykh gornykh vyrabotok. Moskva, Ugletekhizdat 1956, 179 p. (MIRA 9:10)

(Mine surveying)

。 1、一种,我们是一种,我们就是一种,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人

RYZHOV, Petr Alekaandrovich, prof., doktor tekhn.nauk; BUKRINSKIY, Viktor Alekaandrovich, dotsent, kand.tekhn.nauk; GUDKOV, Valentin Mikhaylovich, kand.tekhn.nauk; KHOTOV, Gavriil Alekseyevich, dotsent, kand.tekhn.nauk; LYUBMAN, IETAII† Börisovich, ansistent; RUDAKOV, Mikhail Lazarevich, prof., doktor; PIKULIN, A.P., kand.tekhn.nauk, retsenzent; BUTKEVICH, T.V., red.; PARTSEVSKIY, V.N., red.izd-va; BEKKER, O.G., tekhn.red.

[Mine surveying] Marksheiderskoe delo. Pod nauchnoi red. P.A.
Ryzhova. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i
tsvetnoi metallurgii, 1958. 463 p. (MIRA 12:1)
(Mine surveying)

TROTOV, G.A.

Ultrasonics and their use in mine surveying. Zap. IGI 37 no.1:
132-149 '58.

(Mine surveying)

(Ultrasonic waves—Industrial applications)

。 第155人在全国人的公司人工会员工会员工程程度的企业工程程度的现在分词工程是有的企业工程程度的企业工程程度。

KAZAKOVSKIY, Dmitriy Antonovich, prof., doktor tekhn.nauk; AVERSHIN, Stepan Gavrilovich, prof., doktor tekhn.nauk; BELCLIKOV, Antonin Nikolayevich, dotsent, kand.tekhn.nsuk; GUSEV, Mikheil Iosifovich, dotsent, kand.tekhn.nauk; ZDANCVICH, Vyacheslav Grigor'yevich, prof., doktor tekhn.nauk; KROTOV, Gavriil Alekseyevich, dotsent, kand. tekhn. nauk; LAVHOV, Vladimir Mikolayevich, kand. tekhn. nauk; LEBEDEV, Kirill Mikhaylovich, assistent; PYATLIN, Mikhail Petrovich, dotsent, kand. tekhn. nauk; STENIN, Bikolay Ivanovich, assistent; BUKRINSKIY, V.A., otv.red.; STAYOROSOV, A.Kh., red.izd-va; ALADOVA, Ye.I., tekhn.red.; KOROVENKOVA, Z.A., tekhn.red.

> [Mine surveying] Marksheiderskoe delo. Moskva, Ugletekhizdat, (MIRA 13:11) 1959. 688 p. (Mine surveying)

KAZAKOVSKIY, D.A., prof., doktor tekhn.nauk; KROTOV, G.A., dots., kand.tekhn.nauk; GURIN, A.A., kand.tekhn.nauk

Use of acoustical equipment for solving of mine surveying problems.
Nauch.dokl.vys.shkoly; gor.delo no.2:85-91 59. (MIRA 12:7)

(Mine surveying)

(Ultrasonic waves--Industrial applications)

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TO DESCRIPTION OF THE PROPERTY OF THE PROPERTY

KAZAKOVSKIY, D.A., prof.; KROTOV, G.A., dots.; GURICH, A.A., kand.tekhn.

Use of sound ranging for the solution of geological and mine surveying problems. Gor.zhur. no.9:70-71 S \*60. (MIRA 13:9)
(Mining geology) (Mine surveying)

KROTOV, G.A., dotsent

Use of the results of a sonar survey to determine the losses in dredging placer deposits. Izv. vys. ucheb. zav.; gor. zhur. 6 no.3:39-46 '63. (MIRA 16:10)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy marksheyderskogo dela.

KAZAKOVSKIY, D.A., prof.; KROTOV, G.A., dotsent; GURICH, A.A., kand. tekhm. nauk

Use of sound-fixing apparatus in dredge workings. Izv. vys. ucheb. zav.; gor. zhur. no.6:40-48 161. (MIRA 16:7)

中心,但是一种的主要,可以是一个人的主义,但是一个人的人,也是一个人的人,也是一个人的人,但是一个人的人,但是一个人的人,但是一个人的人,但是一个人的人,可以不

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V. Plekhanova. Rekomendovana kafedroy marksheyderskogo dela.

(Mine surveying—Equipment and supplies)
(Sound—Equipment and supplies)

ARANOVICH, V.B.; GURICH, A.A.; KROTOV, G.A.; RUDNEV, L.N.

Technical errors in sound ranging measurements in mine surveying. Zap. LGI 46 no.2:117-130 163. (MIRA 17:6)

CIA-RDP86-00513R000826710001-6

ACC NR: AT6032747

SOURCE CODE: UR/0000/66/000/000/0177/0185

AUTHOR: Krotov, G. A.

ORG: none

TITLE: Use of echo-sounding in solving mining problems

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SOUNCE. AN ISSR. Institut fiziki Zemli. Geoakustika; ispol'zovaniye zvuka i ul'trazvuka v seysmologii, seysmorazvedke i gornom dele (Geoacoustics; the use of sound and ultrasound in seismology, seismic prospecting, and mining). Moscow, Tzd-vo Nauka, 1966, 177-185

TOPIC TAGS: mining engineering, seismic prospecting, acoustic method

ABSTRACT: Investigations conducted by the Leningrad Mining Institute in the application of echo-sounding in geological mining problems are discussed. Successful application has been achieved in 1) echo-location surveying and in working placer deposits by dredging, 2) determining the form and size of inaccessible mining faces, and 3) checking the state of underground brine-filled chambers. The research was under the direction of Professor D. A. Kazakovskiy. The article contains echograms showing the bottom deposits of Lake Gladyshevskoye, as well as a diagram depicting the the borehole technique used to probe underground salt- and brine-filled cavities. Orig. art. has: 2 figures.

SUB CODE: 08/ SUBM DATE: 28Mar66/

**Card** 1/1

是由某些经验,但我们在种种,还是是我们的一个人,但是是一个人,不是一个人,我们们们的一个人,我们们们们的一个人,我们们们们的一个人,我们们们们的一个人,我们们们

MYSHENKOV, D.P.; KROTOV, I.A.

Modeling equipment made of the AK-1 material. Mashinostroitel' no.12:23 D '64. (MIRA 18:2)

S/113/60/000/004/006/007 D249/D301

**AUTHORS:** 

Myshenkov, D.P. and Krotov, I.A.

TITLE:

Elimination of nitroenamel destruction in the zone of

welded seams

PERIODICAL:

Avtomobil'naya promyshlennost', no. 4, 1960, 35

TEXT: Formation of deposit and destruction of the lacquer paint film in the zone of welded seams was observed on automobiles \$93 (YaAZ). The investigation, carried out in the Central Laboratory of the Yaroslav-skiy motornyy zavod (Yaroslavl' motor plant), disclosed that this deposit consists of carbonates of alkali metals. Caustic alkalis destroy the paint film on welded seams and, by absorbing the carbon dioxide from the atmosphere, turn into carbonates which deposit in the form of a white coating. To investigate this process, metal plates were prepared on which seams were welded, using for it the electrodes OMM-5 and MU-7 (MTs-7). The plates were treated by water vapor and carbon dioxide until a white coating appeared on the welded seams. Having established the

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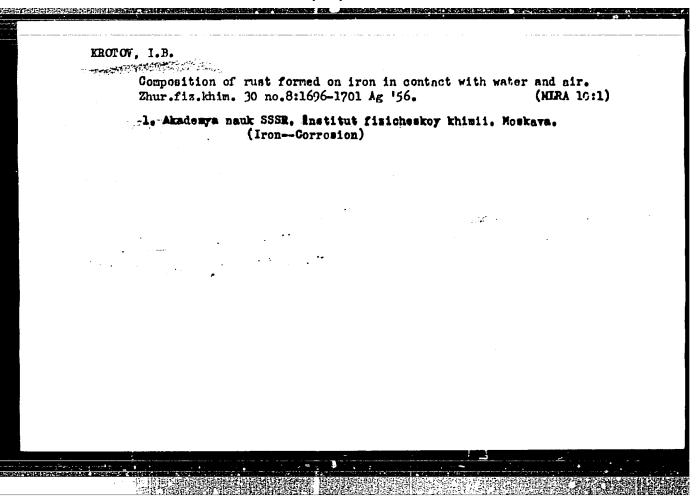
S/113/60/000/004/006/007 D249/D301

Elimination of nitroenamel...

chemical composition of the coating the investigators applied a number of weak acids solutions (phosphorus, oxalic, chromic) to remove it. The best results were obtained when a weak solution of chromic anhydride was used. When the scale was removed the welded seams were twice washed by a solution containing 0.1% of chromic anhydride, 0.05% pctassium biachromate and 0.85% water. Labstractor's note: Rest of the solution net given 7.0 The temperature of the solution was 60-70 C.

ASSOCIATION: Yaroslavskiy motornyy zavod (Yaroslavl' motor plant)

Card 2/2



# KROTOV, I. N.

"Basic Errors in the Calculations of Cater-Supply Systems and Methods for Improvement." Sub 21 Apr 51, All-Union Sci Res Inst of Cater Supply, Sewerage, Hydraulic Structures and Engineering Hydrogeology (VODGEC)

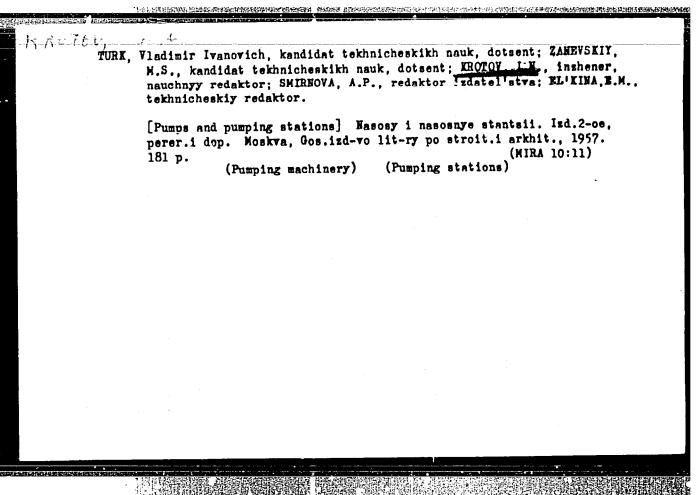
Dissertations presented for science and engineering degrees in Moscow during 1951

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6"

KROTOV L.W. KONYUSHKOV, A.M., kandidat tekhnicheskikh mauk nauchnyy redaktor; GOLUBBIKOVA, L.A., redaktor; TOKER, A.M., tekhnicheskiy redaktor

[Precision methods of calculation for water supply lines] Pricry utochnennogo rascheta vodoprovodnykh setei. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhit. 1954. 103 p. (MIRA 8:4) (Water supply engineering)



ABRAMOV, N.W., prof., doktor tekhn.nauk; GENIYEV, N.W., prof., doktor tekhn.nsuk [deceased]; PAVLOV, V.I., dotsent, kand.tekhn.nsuk [deceased]. Prinimali uchastiye: KLYACHKO, V.A.; KASTAL'SKIY, A.A.; POKROVSKIY, V.N., MOSHNIN, L.F., prof., retsensent; MINTS, D.M., prof., retsenzent; ABRAMOV, S.K., dotuent, retsenzent; BONDAR', F.I., insh., retsensent; KROTOV, I.N., kand.tekhn.nauk, nauchnyy red.; SMIRNOVA, A.P., redried va; MEDVEDEV, L.Ya., tekhn. red.; SOLNISEVA, L.M., tekhn.red.

> [Water-supply engineering] Vodosnabzhenie. Izd.3., perer. Moskva, Gos.isd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1958. (MIRA 12:5) 578 p. (Water-supply engineering)

CIA-RDP86-00513R000826710001-6"

APPROVED FOR RELEASE: 06/19/2000

BABAIAN, K.E.; KROTOV, A.V.

Problem of mullet breeding in the littoral lakes and the Danube Delta. Hidrologia 4:329-336 163.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6"

KROTOV, I.S.; MAYOROVA, T.A., mootekhnik.

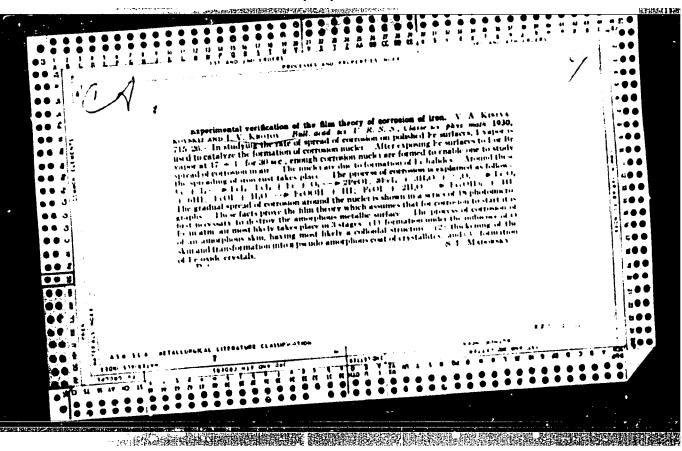
Restore the fame of Siberian butter. Hauka i pered. op. v sel'khos. 7.no.5:4-5 My '57. (MIRA 10:6)

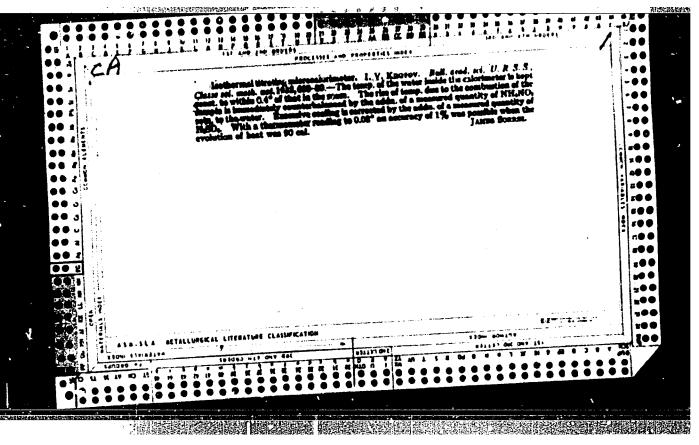
至少是自由社会的的复数。**在自己的对象对象的问题,因为证明的。因为**证明的表现的对对的主义的"是一个主义",但不是一个主义,但对现在的主义是对现在的主义是<mark>对对象的对象的对象的现</mark>

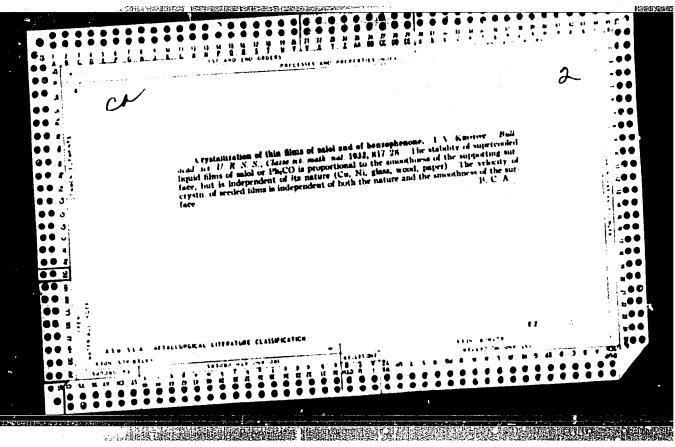
- 1. Upravlyayushchiy Novosibirakim treston "Masloprom" (for Krotov).
- 2. Cherepanovskiy sovkhoz, Novosibirskoy oblasti. (Siberia-Butter)

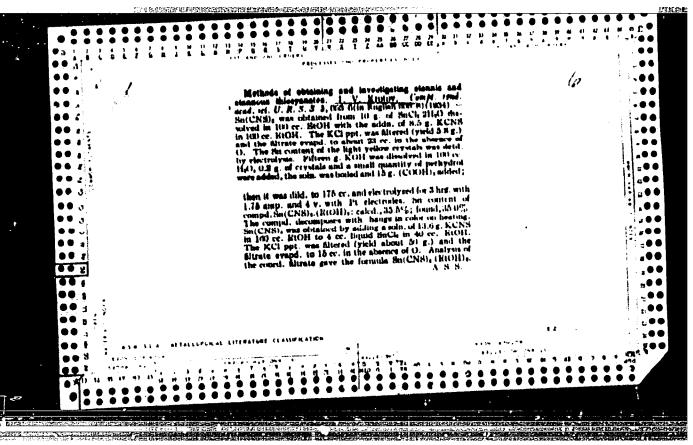
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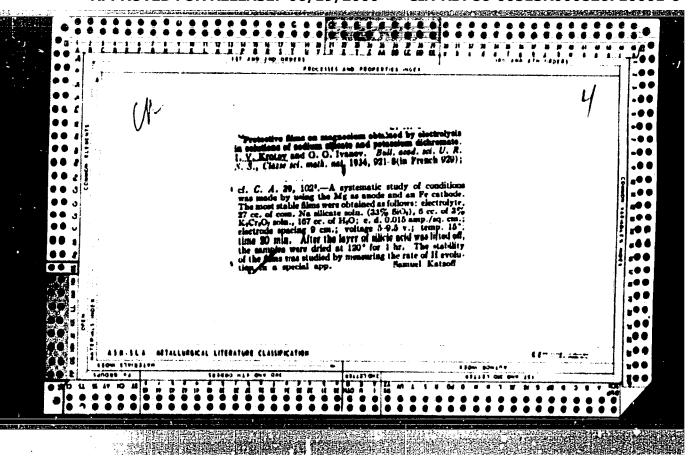
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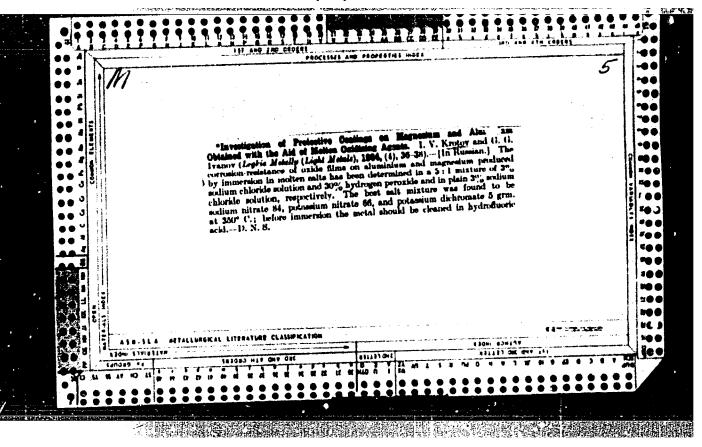


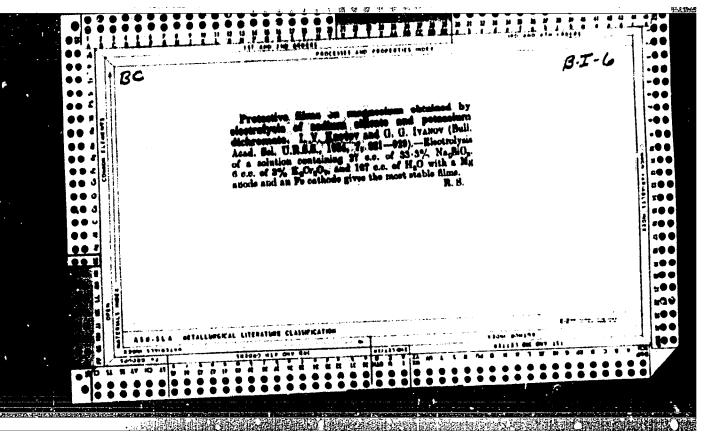


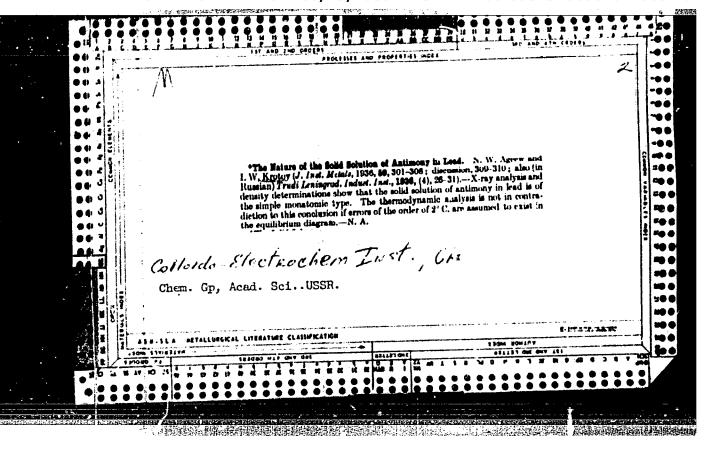


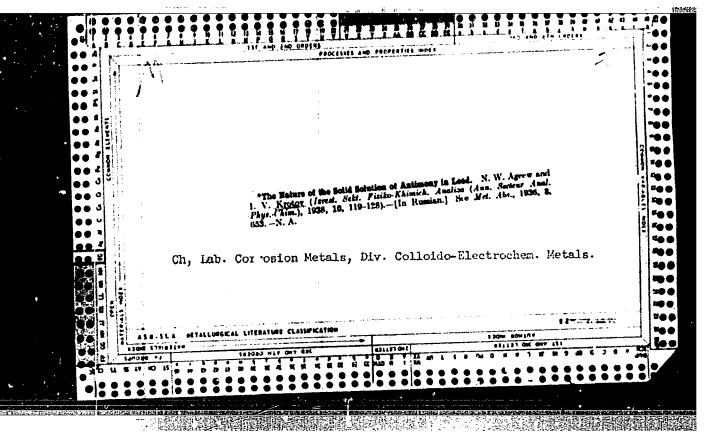












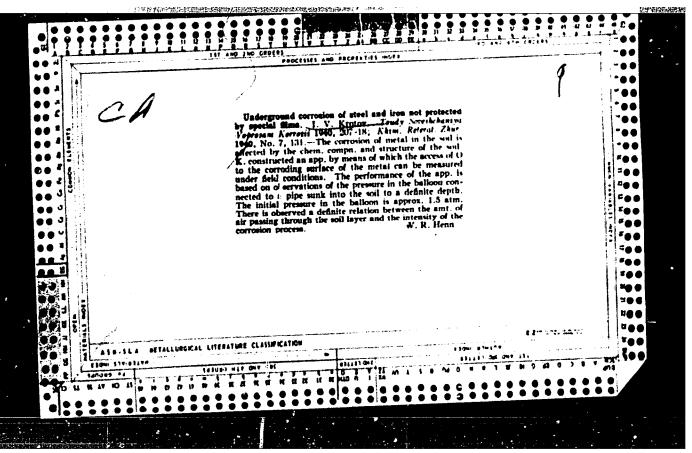
KROTOV 418V8

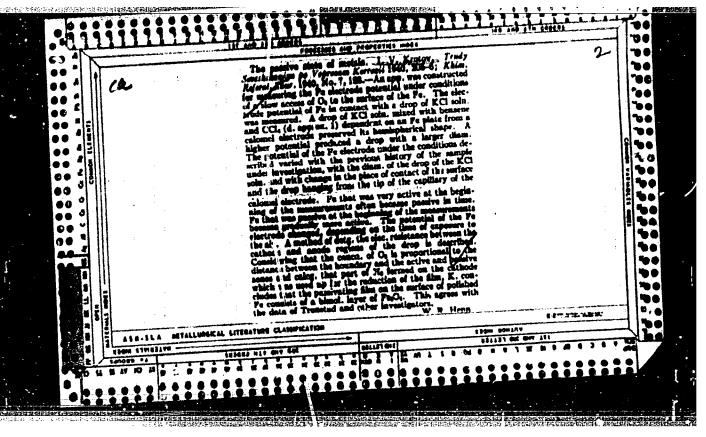
600

- 1. KROTOV, I.V.
- 2. USSR (600)

"An Answer to the Criticism by G. V. Akimov of I.V. Krotov's Article 'A Theory of the Passive Condition of Iron'"; 13, No. 4, 1939;

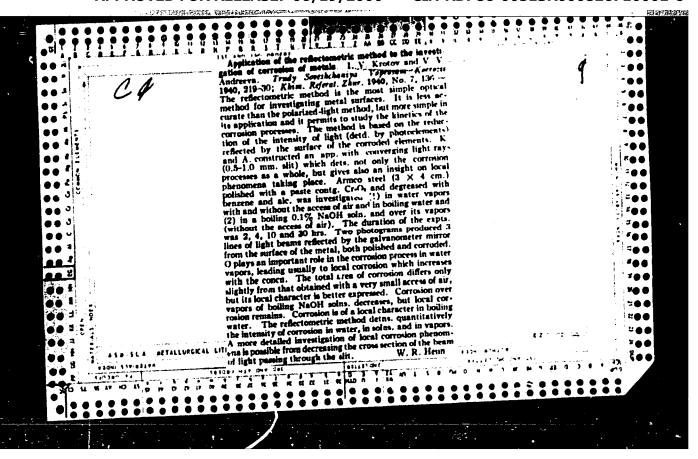
9. Report U-1613, 3 Jan. 1952.

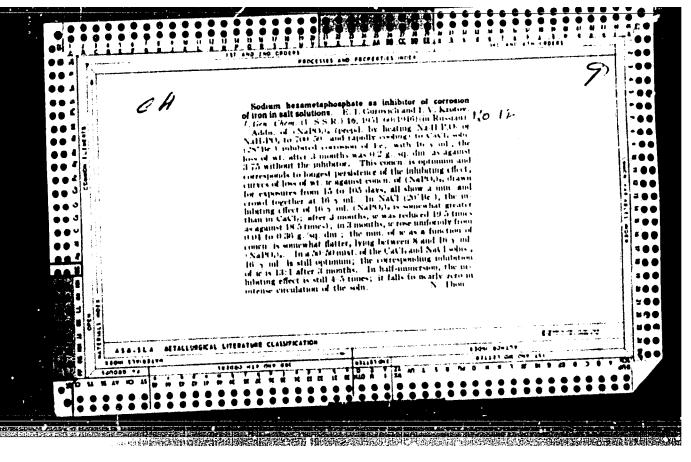


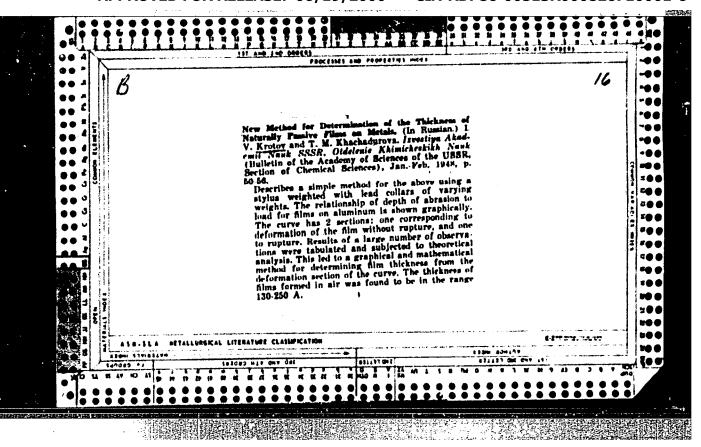


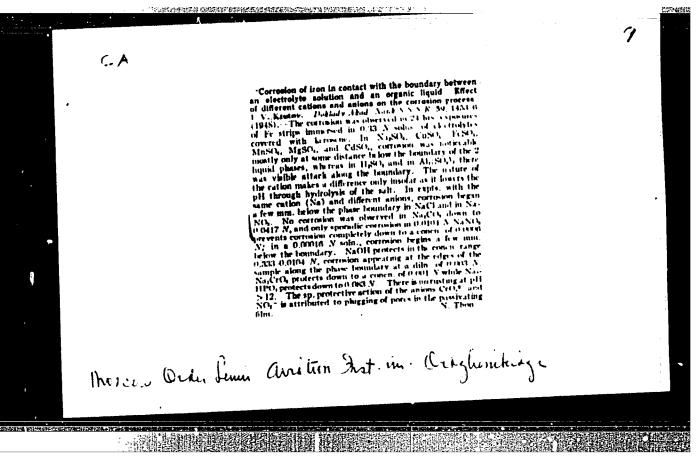
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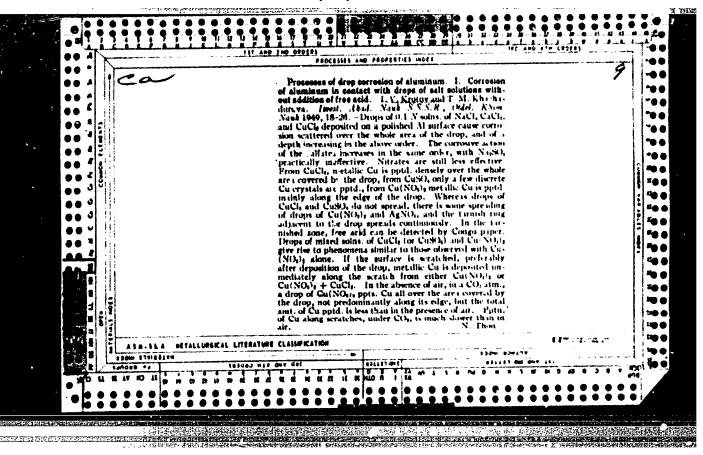
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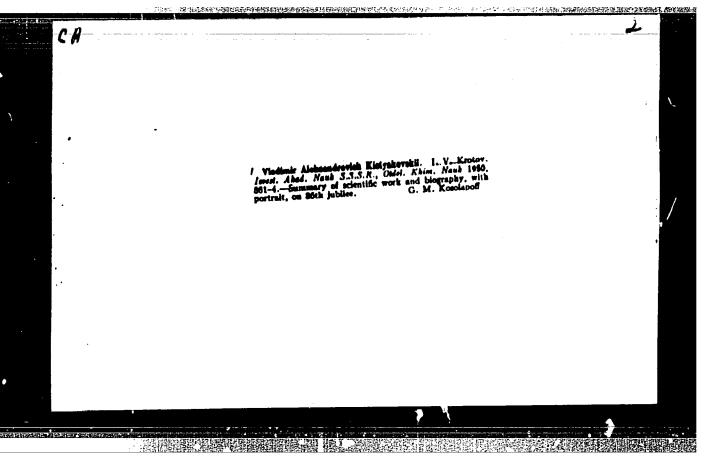


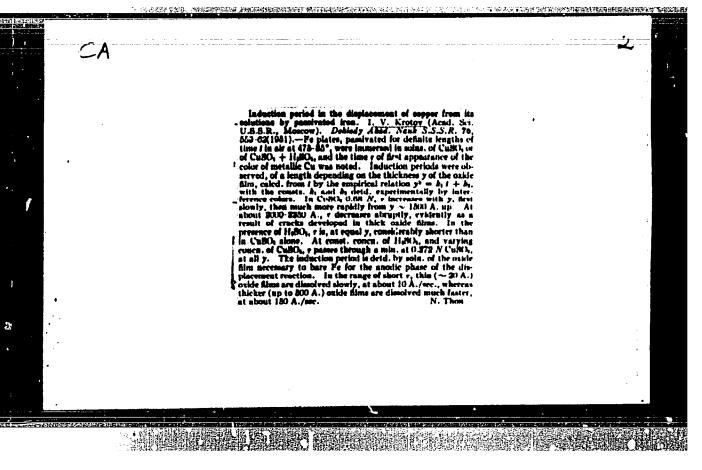


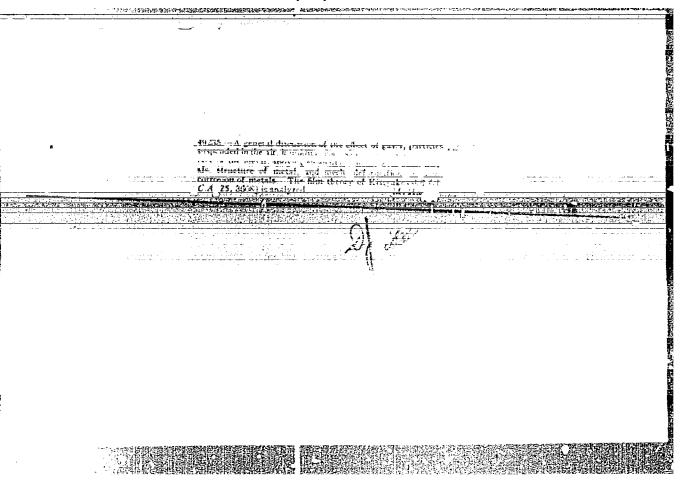






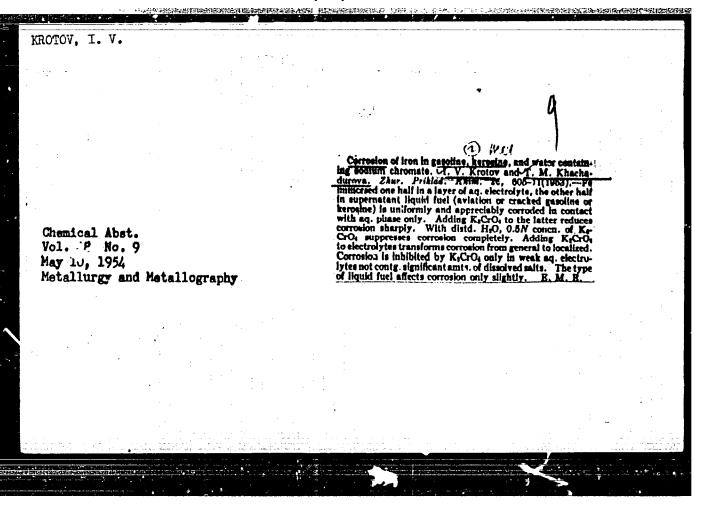


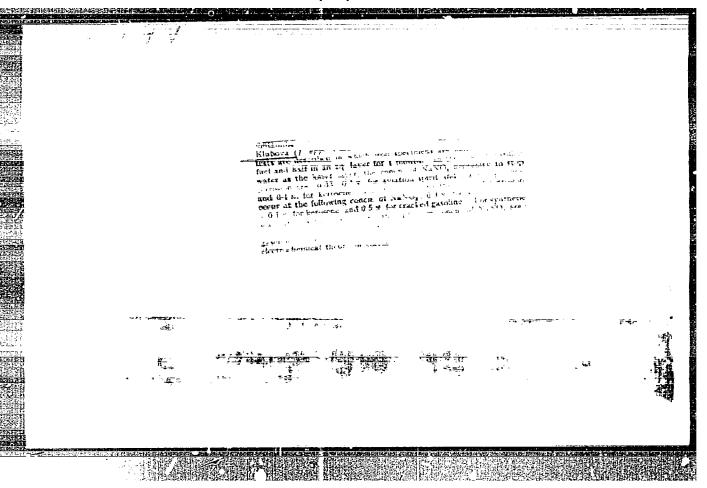




#### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710001-6





USSR/Chemistry Physical chemistry

card 1/1 Pub. 147 - 22/25

Authors : Krotov, I. V.

Title : Composition and mechanism of formation of a film on iron

Periodical : Zhur. fiz. khim. 28/7, 1327 - 1330, July 1954

Abstract

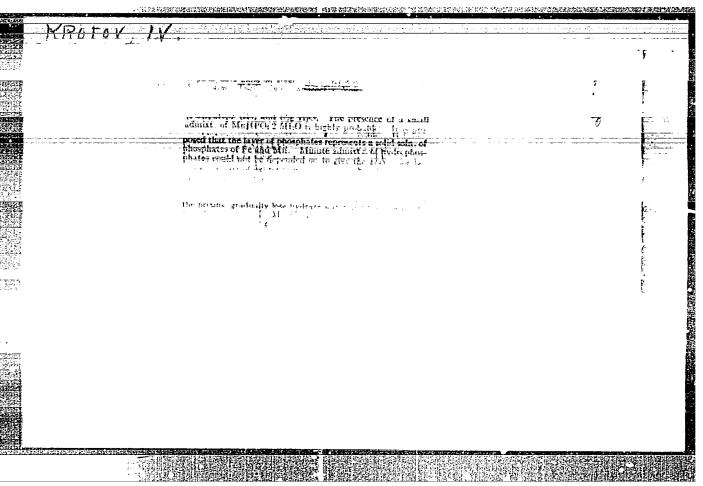
The composition and mechanism of formation of an oxide film, formed on an iron surface during alkaline burnishing, were investigated electrochemically. Chemical-analytical and thermographic studies of the composition of such an outside film on a burnished iron surface led to the conclusion that this film consists of Fe<sub>3</sub>O<sub>1</sub> plus a small amount of adsorbed moisture. It was established that the entire process of alkali burnishing of iron and steel surfaces is a purely electrochemical process. Four references: 3 USSR and 1 German (1920 - 1944). Graphs.

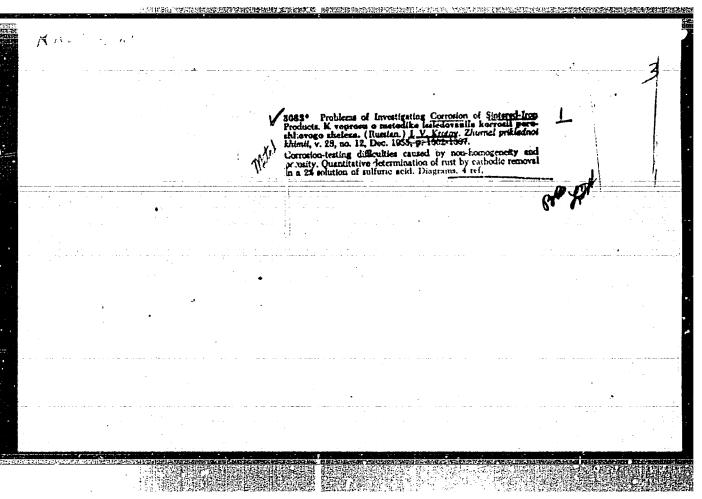
Institution : Acad. of Sc. USSR, Institute of Physical Chemistry, Moscow

Submitted : December 25, 1953

1. V. KROTOV. USSR/Chemistry - P. sical chemistry Pub. 147 - 4/27 Card 1/1 Authors Krotov, I. V. Theory about the process of formation of an anodic film on aluminum Title Zhur. fiz. khim. 28/9, 1550-1554, Sep 1954 Periodical: The existence of Al(OH)3 and AlOOH in the composition of an anodic film form-Abstract ed on aluminum in sulfuric acid solutions, was established by chemo-analytical and thermographic methods. It is also shown that the components of the anodic film on Al form directly during the anodic process and that the anodic solution of the Al in the pores of the film offer a protective measure against the solut on of the film in acid. It was established that the process of anocic film formation of Al in sulfuric acid solutions is an electro-chemical and colloidal-electrochemical process as well. Eleven references: 4-USSR; 1-Japanese; 1-German; 5-USA (1932-1951). Graph. Institution: Academy of Sciences USSR, Institute of Physical Chemistry, Moscow Submitted : July 8, 1953

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6





USSR/Kinetics - Combustion. Explosions. Topochemistry. Catalysis.

: Referat Zhur - Khimiya, No 6, 1957, 18610 Abs Jour

: I.V. Krotov. Author

Composition of Rust beveloping of Iron in Contact with Title

Water and Air.

: Zh. fiz. khimii, 1956, 30, No 8, 1696-1701 Orig Pub

The composition of not freshly formed rust produced by Abstract

Fe powder ground in a whirling grinder and rusting in air (previously wetted with distilled water) was studied by the chemico-analytical and thermographic methods. As it seems, rust consists of & -FeOOH, which loses the absorbed water when heated to 1490. In the author's opinion, X -FeOOH transforms into & -Fe2O3 at a further temperature rise. This process discontinues at about 2900. The process of transition from X-Fe203 into X-Fe203 ends

at about 6760.

Card 1/1

- 254 -

the strong bonding between H2O and 11203 in this variety of aluminum hydroxide.

Card 1/1 ÄPPRÖVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6

#### CIA-RDP86-00513R000826710001-6 "APPROVED FOR RELEASE: 06/19/2000

TO COLD THE CASE TO MAKE THE PROPERTY OF THE P

74 27 5-5/6 Krotov, I. V. (Moscow) AUTHOR:

On the Use of madioactive Isotopes in the Investigation TITLE: of Corrosion Processes and the Passization of Metals

(Primeneniye radioaktivnykh izotopov v issledovanii protsessov korrozii i passivirovaniya metallov)

Uspekhi Khimii, 1958, Vol. 27, Nr 5, pp 643-667 (USSR) PERIODICAL:

In carrying out investigations with marked atoms, Boparticles, ABSTRACT: y-rays or combinations of both types of radiation are in

most cases used. In the introduction the author emphasizes that 2 characteristic features of radioactive substances must betaken into consideration when using its the half-life and the energy of radioactive radiation. The use of radioactive isotopes emitting particles of a very low energy, as for example the hydrogen-isotope (tritium), requires much more sensitive methods of radiation recording. After

further statements on the advantages of the method of radioactive isotopes section 2 of the paper deals with the ex-

change mechanism between marked ions in the solution and the

surface of a metal. The author discusses the investigations Card 1/3

CIA-RDP86-00513R000826710001-6" **APPROVED FOR RELEASE: 06/19/2000** 

On the Use of Radioactive Isotopes in the Investigation 74-27-5-5/6 of Corrosion Processes and the Passivation of Metals

对于1986年的图形的图形的图片,**并是自由电压图像用于图片的图片**。如果是是自由的图片的图片的图片。

of the exchange mechanism (between ions and metals) in solutions which contained ions of radioactive cobalt (works by Simnad and Ruder, reference 8), the investigations by won Hevesy and Blitz (reference 9) and the experiments with nickel samples in the absence of oxygen (where it was proved that nickel attains a much lower activity than cobalt). After further concrete statements the investigation of the purification processes of metals on the basis of the use of marked atoms is discussed in section 3 of the paper. In this connection the published results by Hensley and King (references 14, 15) and the methods of application (reference 16) are mentioned. by Estan, Fabian and Neuton Section 4 deals with the use of stable and radioactive isotopes in the investigation of some corrosion processes. In section 5 the use of marked atoms in the investigation of the mechanism of action of the corrosion inhibitors is discussed. In this connection the works by Brasher and Stove (reference 24), Powers and Hunkerman (reference 25), Van Hong, Eisler, Bootzin and Harrison (reference 28) are referred to. In section 6 the author deals with the investigation of

Card 2/3

"全国的主要的特别的国际政策的国际已经的政策和经验的企业,这些可能,但我们的证明的企业的企业,但是这些的证明的企业的企业的实现的。"**他们也是是这些国际的政策和政策的** 

On the Use of Radioactive Isotopes in the Investigation 74-27-5-5/6 of Corrosion Processes and the Passivation of Metals

phosphate coatings on metals by means of marked atoms. In this connection some works and investigation results are discussed, such as those by Boyd, Galan, Markowitz (reference 29), Pryor, Brand, and Cohen (reference 30), Eisler and Doss (reference 36). At the end the author of the present report deals with the employment of the method of autoradiography in investigations of the properties of metal surfaces. There are 5 figures and 42 references, 9 of which are Soviet.

1. Corrosion--Radiographic analysis 2. Radicisotopes--Application

Card 3/3

EROTOV, I.V.; GRININA, V.V.; ZAPOL'SKAYA, N.A.

Formation of aluminum phosphate and chromium films on aluminum and its alloys. Zhur. prikl. khim. 31 no.1:33-40 Ja '58.

(MIRA 11:4)

(Thermal analysis) (Aluminum alloys) (Metallic films)

8/684/06/00/01/011/01:/01% 7003/1001

AUTHORS: Krotov, I. V., Grinina, V. V.

TITLE: / The Densimetric Method for Determining the Thickness of Protective

Films on Metals

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 11, pp. 2606-2507

TEXT: The following methods are described in literature for determining the thickness of protective films on metals: The gravimetric method (Refs. 1-3), the electrochemical method (Refs. 4-6), the optical method (Refs. 7-9), the spectral method (Ref. 10), the roentgenographic method (Ref. 11), the volumetric weight method (Ref. 12), the determination by means of a double Lipnik's microscope (Refs. 13-15) for transparent films, the determination by means of the spark-over voltage, and the determination by means of the visible volume (Ref. 19). The following method is proposed here: a sample of sheet material covered with a protective film weighing A g and with a total area of S cm<sup>2</sup> is used. This sample is placed into a pycnometer filled with a liquid of density d<sub>1</sub> g/cm<sup>3</sup> and is weighed. The obtained weight will be C g. The weight of the pycnometer with the liquid will be B g. The average density of the sample with protective film is

Card 1/2

S/080/60/033/011/013/014 A003/A001

The Densimetric Method for Determining the Thickness of Protective Films on Metals

designated as  $d_{av}$  g/cm<sup>3</sup>, the thickness of the protective layer as h cm, the density of the film as  $d_f$  g/cm<sup>3</sup>, the thickness of the metal layer in the sample with the film as  $h_{Me}$  cm, the quantity of the free metal in the sample with the film as g. The following formula was found:  $C = B + A - \frac{1}{d_1} + \frac{1}{d_1} + \frac{1}{d_2} + \frac{1}{d_1} + \frac{1}{d_1} + \frac{1}{d_2} + \frac{1}{d_1} + \frac{1}{d_1$ 

SUBMITTED: March 7, 1960

Card 2/2

TIKHONOV, Mikhail Konstantinovich; KROTOV, I.V., doktor khim. nauk, prof., otv. red.; GCRSHKOV, G.B., red.izd-va; ZUDINA, V.I., tekhn. red.; GUS'KOVA, O.M., tekhn. red.

[Corrosion and the protection of concrete and reinforced-concrete hydraulic structures] Korroziia i zashchita mcrskikh scoruzhenii iz betona i zhelezobetona. Moskva, Izd-vo Akad. nauk SSSR, 1962. 119 p. (MIRA 15:3)

(Hydraulic structures—Corrosion)

(Concrete construction—Corrosion)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6"

KAZNACHEYEV, Yu.I.; KROTOV, I.V.; GRININA, V.V.; KOLESNIKOVA, N.A.

Producing a film on a wave-guide in order to protect it from corrosion and ensure small losses on centimeter and millimeter radio waves. Zhur.prikl.khim. 35 no.12:2684-2687 D '62.

(MIRA 16:5)

1. Institut fizicheskoy khimii AN SSSR i Institut radiotekhniki
i elektrohiki AN SSSR.

(Protective coatings) (Radio waves)

(Electronic apparatus and appliances—Corrosion)

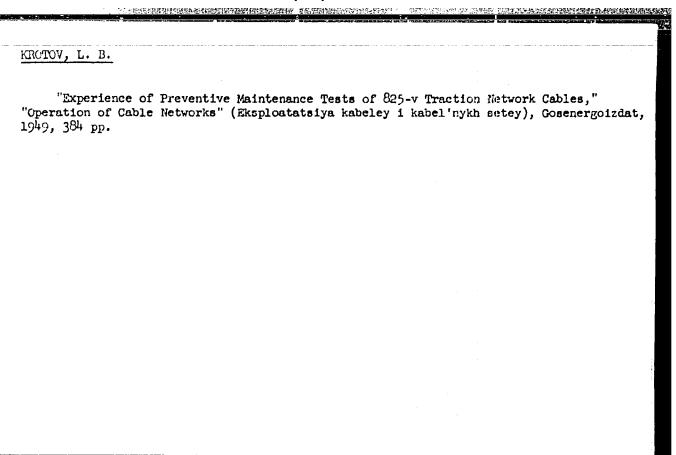
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PUTILOVA, Iya Nikolayevna; LEVANT, Grigoriy Yefimovich; RAYTSYN, Genrikh Aleksandrovich; MENKOVSKIY, Mikhail Abramovich; KROTOV, Ivan Vasil'yevich; LOSEV, Boris Ivanovich; STUKOVNIN, N.D., red.

[Course in general chemistry] Kurs obshchei khimii. [By] I.N.Putilova i dr. Moskva, Vysshaia shkola, 1964. 444 p. (MIRA 18:1)

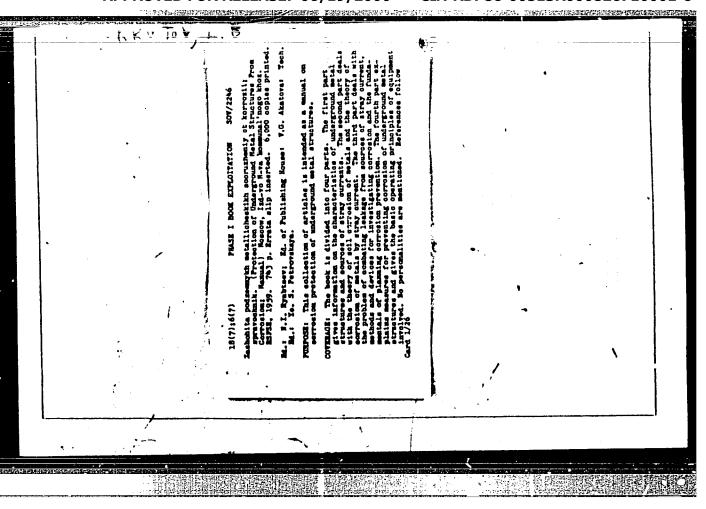
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Special circuits used in rail systems to reduce stray currents.

Vest. TSNII MP3 no. 5:52-53 J1 '58. (MIRA 11:8)

(Electric currents, Leakage)



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6"

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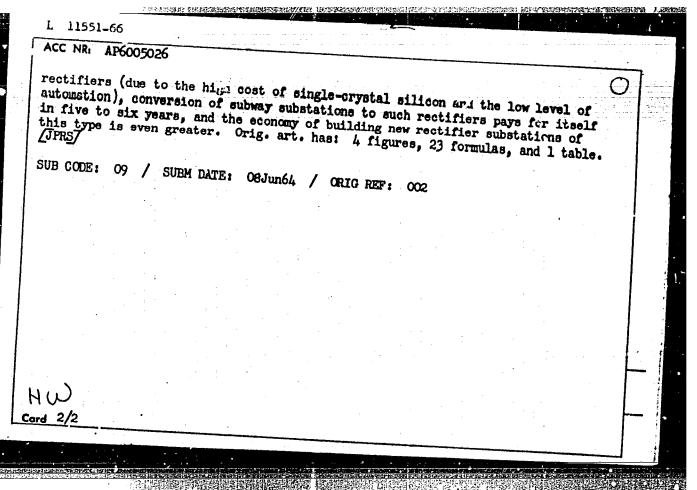
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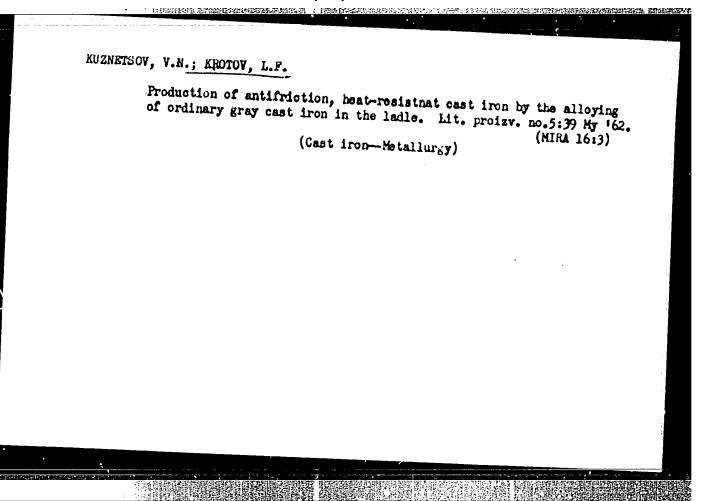
ALRESASHRIH, a.e. (Moskva); BYROV, Ye.1. (Moskva); 7EBYALLAYA, Ye.A. (Moskva);
ELECT, L.B. (Moskva); KERTSINA, 7.T. (Moskva); 1.SALILMOV, L.G. (Moskva);
SAROTREH, A.A. (Moskva); YUDITSKIY, S.B. (Moskva)

New semi-conductor rectifiers for subway traction substations.
Elektrichestvo no.1:42-48 Ja '65. (MIRA 18:7)

11551-66 EWT(1)/EWT(m)/EEC(k)-2/T/EWP(t)/EWP(b)/EWA(h)IJP(c) ACC NR: AP6005026 AUTHOR: Aleksashkin, A. A.; Bykov, Ye. I.; Zemlyanaya, Ye. A. Kurtsina, Z. T.; Poselenor, L. B.; Sakovich, A. A.; Yuditskiy, UR/0105/65/000/001/0042/0048 ORG: none ORG: none
TITLE: New semiconductor rectifiers for the rectifier substations of subways SOURCE: Elektrichestvo, no. 1, 1965, 42-48 TOPIC TAGS: semiconductor rectifier, electric engineering, electric substation Computations are presented to prove the feasibility and economy ABSTRACT: of replacing the six IVS-500/2 type sealed mercury-arc rectifiers with stacks of VK-200/4A type silicon rectifier cells (average current 200 amp; operating peak inverse voltage [PIY] 400 v; rated PIV 600 v) in the rectifier substations that supply 825 volts d-c for subway traction. The computed six-phase rectifier unit has six parallel branches per phase, with six series-connected cells per branch. The number of parallel branches is computed on the basis of peak load and surge current, taking the circuit-breaker interrupting time into consideration. The number of seriescells is computed on the basis of the PIV's, with allowances for variations in the supply voltage. The overall efficiency of the rectifier unit is 98.9 percent. It is assembled from modular stacks (12 cells and one fan per module) and fits into two cabinets 800 by 600 by 2000 mm. Although at present silicon rectifiers are more expensive than mercury-arc Card 1/2 UDC: 621.314.632.4:621.311.44:625.42

本的是主义的是国际的政治的主义的的现在分词的现在分词的对象的对象,但是他们的 经国际的政治的 "这个是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们





THE PROBLEM CONTROL OF THE PROBLEM O

Specing for air drying of Siberian larch lumber. Der.prem. 5 no.9:
18 S \*56. (MIRA 9:10)

1.Sibirskiy lesetekhnicheskiy institut.
(Lumber--Drying) (Larch)

KROTOV, L. N.: Master Tech Sci (diss) -- "Investigation of atmospheric drying of sawdust from the lumber of the Siberian larch". Leningrad, 1958. 12 pp (Min Higher Educ USSR, Leningrad Order of Lenin Forestry Engineering Acad im S. M. Kirov), 150 copies (KL, No 7, 1959, 124)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6"

KROTOV, MODEST. A.

Rodnaia IAkutiia My Yakutia. IAkutsk, 1952. 218 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 7 October 1953

KROTOV, Modest Alekseyevich; GOLUBKOVA, V.A., red.; ROZKU, E.A., tekhn.red.

[In the Far North] Ma severe dal'nem. Moskva, Izd-vo "Sovetsknia Rossiia," 1957. 213 p. (MIRA 11:5)

(Yakutia)

ARGUNOV, I.A., red.; VASILYEV, S.N., red.; KORYAKIN, P.I., red.; KROTOV,

M.A., red.; LUKONIN, G.A., red.; TOMSKIY, S.K., red.; CHERSKIY,

N.V., red.; CHIRYAYEV, G.O., red.; SOLOVYEVA, Ye.P., tekhm.red.

[Forty years of the Yakut A.S.S.R.] 40 let IAkutekoi ASSR.

IAkutek, IAkutekoe knishnoe izd-vo, 1962. 189 p.

(MIRA 16:1)

(Yakutia—Economic conditions) (Yakutia—Culture)

KROTOV, N., inzh.

Show interest and concern in our integrated brigades. Mor. flot
23 no.3:7-8 Mr '63. (MiRA 16:3)

1. Otdel truda i zarabotnov platy Potiyskogo porta.
(Wages—Longshoremen)

CIA-RDP86-00513R00082671

"APPROVED FOR RELEASE: 06/19/2000 SOV/78-4-8-13/43 The Physico-chemical Investigation of Silico-12-Tungstic Acid Rode, Ye. Ya., Krotov, H. A. (Fisiko-khimicheskoye izucheniye kremne-12-vol: framovoy 5 (2) MUTHORS: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Hr 8, TITLE: Kisloty) The authors give the publication data which are available on the compound mentioned in the title (Refs 1-19). This compp 1782 - 1793 (USSR) pound shows cis-trans-isomerism. On the basis of radiographic analysis its formula is n [c48] PERIODICAL: analysis its formula is H4 SiW 12040 onH20. The compound was investigated in solid orystalline state at different degrees of hydration. Pigures 1 - 3 show the thermographic analysis, ABSTRACT: figure 4 shows the polythermal lines of the preparations of different hydration figure 5 the tenthermal lines of decompositions of different hydration. different hydration, figure 5 the isothermal lines of decomposition. sition, figure 6 the diagram composition - temperature and figure 7 the isothermal lines of vapor pressure for preparations of different hydration. The results may be summarised as follows: at 40 - 440 a liquefaction and decomposition of the hydrate with n = 33H20 takes place. The hydrate is formed with A --- 80008, Card 1/2 SUL -wii im N. S. Kurnakova veneral and Inorganic Chemis-Car - the Academy of Sciences, USSR)

<del>P.P.ELEAS</del>E: 06/19/2000

# RODE, Ye.Ya.; KROTOV, N.A. Tetrasubstituted lithium salt of silico-12-tungstic acid. Zhur.neorg.khim. 8 no.4:939-949 Ap '63. (MIRA 16:'\ 1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AM SSSR. (Lithium compounds) (Silicotungstic acid)

KROTOV, N.A.; RODE, Ye.Ya.

Acid lithium salts of silico-12-tungstic acid. Zhur. neorg. khim. 8 no.7:1722-1736 J1 '63. (MIRA 16:7)

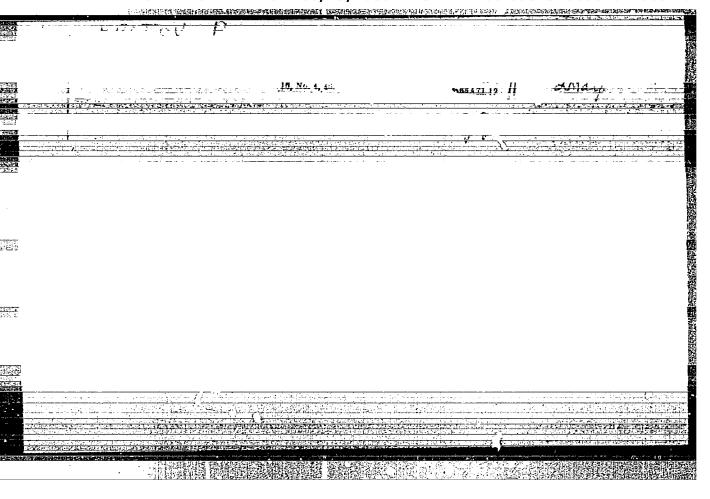
1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

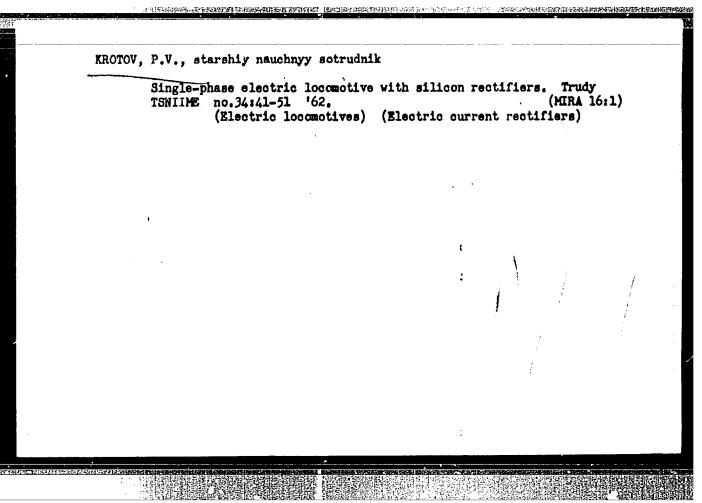
(Silicotungstic acid) (Lithium salts)

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POLYANIN, D.V.; ZOTOV, G.M.; GRYAZNOV, E.A.; MENZHINSKIY, Ye.A.; RUBININ, A.Ye.; CHEBOTAREVA, Ye.D.; ZAKHMATOV, M.I.; OKUNEVA, L.P.; SHMELEV, V.V.; STULOV, A.A.; POKROVSKIY, A.N.; SHIL'DKRUT, V.A.; IVANOV, A.S.; NABOROV, V.B.; FINOGENOV, V.P.; KUR'YEROV, V.G.; KHRAMTSOV, B.A.; BATYGIN, K.S.; BOGDANOV, O.S.; KROTOV, O.K.; GONCHAROV, A.N.; KRESTOV, B.D.; LYUBSKIY, M.S.; SOKOL'NIKOV, C.O.; KAMENSKIY, N.N.; YASHCHENKO, G.I.; SABEL'NIKOV, L.V.; GERCHIKOVA, I.N.; FEDDROV, B.A.; STEPANOV, G.P.; BORDDAYEVSKIY, A.D.; INGATUSHCHENKO, S.K.; VARTUMYAN, E.L.; KAPELINSKIY, YU.N.. red.; MAYOROV, B.V., red.; NABOROV, V.B., red.; SOLODKIN, R.G., red.; DEDZDOV, A.G., red.; ROSHQHIMA, L.; MAYOROV, E.V., red.; ROSHQHIMA, L.; MAYOROV, YEVA, G., mladshiy red.; CHEPELEVA, O.; \*\*CHEREN.\*\* red.\*\*

[The economy of capitalist countries in 1961; economically developed countries] Ekonomika kapitalisticheskikh stran v 1961 godu; ekonomicheski razvitye strany. Pod red. IU.N. Kapelinskogo. Moskva, Sotsekgiz, 1962. 447 p. (MIRA 16:2) (Economic history)





KROTOV, P.V., starshiy nauchnyy sotrudnik; BOLDOV, M.Ye., starshiy nauchnyy sotrudnik; SHVIONOV, I.V., mladshiy nauchnyy sotrudnik

Studying silicon rectifiers. Trudy TSNIIME no.34:53-69 '62.

(MIRA 16:1)

(Electric locomotives) (Electric current rectifiers)

Electrification of narrow-gauge railroads. Thel. ior. transp. 46 no.10:73-77 0 '64. (MIR: 17:11)

ECOTOV, 3.

3/046 MeKhanizirovannyy maslozavod iz skornykh konstruktsiy. Moloch prom-st', 1949, No. 11, S. 12-17

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, 1949

KROTEV, S.

KROTOV, S.

Dairy Plants

Constructing a creamery with profabricated sections. Mol. prom. 13 No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, Santember 1952 1952, Uncl.

FROTOV. S. A., KCLPAKCV, A. S.

KRCTOV, S. A., KCLPAKOV, A. S.

Buildings prefabricated

Large panel construction of industrial enterprises. Stroi. prom. 30, No. 3, Narch 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 1953, Uncl.

USSR/Engineering - Prefabricated Sep 53 Construction	"Experience of Constructing Industrial Buildings of Large Panels," Engr S. A. Krotov, Tsentromaslostroy  Byull Stroi Tekh No 14, pp 1-4  States Tsentromaslostroy trust has designed a cream-  States Tsentromaslostroy trust has preferenced-concrete  ery plant of prefabricated reinforced-concrete  panels made at the trust's mfg plants. First exptl  prefab creamery erected 1950 at Svecha stentsiya,  Kirovskaya Oblast. Mass production of prefab parts	organized 1952 at plant in Vologda, and group of pre-fab creameries erected in Voronezhelmya and Kurskaya Oblasts. Wall panels are 4.5 X 1.0 and 4.5 X 1.6 m in dimension; corresponding vts are 1.7 and 2.5 tons. Describes construction of panels, with dimensions, and buildings.	

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,	•					PA 27/4	9129	•
KROTOV, V.	27/19729	Calculates characteristics and changes of the oride	USSE/Chemistry - Aluminum, Corrosion of Jan/Feb 49	Makes several new observations on processes of drop corrosion in aluminum. Shows characteristic role of atmospheric oxygen in these processes. Considers atmospheric oxygen in these processes. Considers remitts of experiments from thermodynamic standpoint.	R, Otdel Khim Mauk" No l	**Processes of Drop Corrosion of Aluminum: I, Corro- Maion of Aluminum in Contact With Drops of Saline Solutions Without the Addition of Free Acid, " V. Krotov T. M. Khauhadurova, Moscov Avn Inst imeni S. Ordinonikidze, 9 pp	USSR/Chemistry - Aluminum, Corrosion of Jan/Jeb 49 Chemistry - Corrosion of Aluminum, by Saline Solutions	
		E DATE	<b>新科教</b>					
	10. 10.15 元和语言,这种记忆的时间,就是这种是是是是	CHINE AND STATES	TELEBERSON:	建物学制度协会 化	四是 1937	<b>多404的扩展为444的扩展的整个数</b>	THE PERSON NAMED IN THE PE	1879年1975年1975年1975年1975年1975年1975年1975年19

KROTOV, V., delegat XXI s<sup>n</sup>yesda Kommunisticheskoy partii Sovetskogo

Heavy industry is the basis of our country's might. Voen. snan. 35 no.6:3-5 Je '59. (MIRA 12:12)

1. Direktor Ural'skogo savoda tyashelogo mashinostroyeniya im. S.Ordshonikidse. (Sverdlovsk--Machinery industry)

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5/141/61/004/006/005/017 E032/E114

AUTHORS :

Gorskiy, S.M., and Krolov, V.A.

TITLE:

Some characteristics of atmospheric noise in the

range 2 - 25 cps

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, v.4, no.6, 1961, 1025-1028

The aim of this work was to investigate the intensity TEXT: and the spectral distribution of the vertical magnetic component of the electromagnetic field associated with atmospheric noise in the frequency range 2-25 cps. The measurements were carried out in the Crimea. The atmospheric noise was received by a 5  $\times$  10<sup>4</sup> m<sup>2</sup> horizontal frame antenna. The block diagram of the arrangement is given in Fig.1. The amplifier had a symmetric input and an asymmetric output. The maximum amplification coefficient was  $2.5 \times 10^5$  and could be reduced by factors of 2.5 and 10respectively. The amplified signals were recorded on magnetic tape and could also be inspected visually on the screen of an oscillograph. The minimum detectable signal was 2 x  $10^{-10}$  oe. It was found that the rms fluctuation in the magnetic component Card 1/8 3

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Some characteristics of atmospheric... S/141/61/004/006/005/017 E032/E114

during October was 5 x 10<sup>-9</sup> oe. The signals were also analysed with an optical Fourier analyser with a resolution of 0.1 cps (V.A. Zverev, Ye.F. Orlov, Ref.8; Pribory i tekhnika eksperimenta, in press).

Fig. 4 shows a typical spectrogram of atmospheric noise. The spectrum is not flat; its intensity increases at lower wavelengths and there is a sharp line at 9 cps (roughly in the middle of the picture). This line is ascribed to a cavity resonance, in accordance with the suggestion put forward by W.O. Schumann and H. König (Ref. 9: Naturwiss., v. 41, 183 (1954)). It is pointed out that the line was not observed after sunset. Fig. 5 shows the spectral density of atmospheric noise averaged over 25 sets of observations for September and October as a function of frequency. The slight minimum between 5 and 10 cps is interpreted as the boundary between the atmospheric noise spectrum and the geomagnetic micropulsation spectrum. Acknowledgments are expressed to V.A. Zverev and M.M. Kobrin for their valuable suggestions.

Card 2/ / 3

33219

Some characteristics of atmospheric... S/141/61/004/006/005/017 E032/E114

There are 5 figures and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The four most recent English language references read as follows:

Ref. 3: E.F. Pierce. J.Res. Nat. B.St., v. 64-D, 4 (1960).

Ref. 4: A.D. Watt, J.Res. Nat. B.St., v. 64-9, 4 (1960).

Ref. 6: W.H. Campbell, J.Res. Nat. B.St., v. 64-D, 4 (1960).

Ref. 7: Obayashi Tatsuzo, Rept. Ionos. Res. Japan, v. 12, 3 (1958).

ASSOCIATION: Gor'kovskiy nauchno-issledovatel'skiy radiofizicheskiy

institut pri Gor'kovskom universitete

(Gor'kiy Scientific Research Radiophysics Institute

at Gor'kiy University)

SUBMITTED:

April 14, 1961

Card 3/# 7

RUHYARTSEY, G.M., redaktor; BORISOV, M.I., redaktor; BUYARTUYEY, R.B., redaktor; RAZUMOV, I.M., redaktor; KHADALOV, P.I., redaktor; SHIPPER, R.I., redaktor; AKHANOV, T5.B., tekhnicheskiy redaktor.

[Studies on the production forces of the Buryat-Mongolian A.S.S.R.] Materialy po isucheniu proisvoditel'nykh sil Buriat Mongol'skoi ASSR. Ulan-Ude, Buriat-Mongol'skoe kn-vo. no.1. 1954. 425 p. (MIRA 9:5)

(Buryat-Mongolia--Monnoid geography)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710001-6"

POPOV, S.D., otv.red.; BORISOV, N.I., red.; BUYANTUYEV, B.R., red.; GALAKTIOHOV, I.I., red.; KROYOV. V.A., red.; OZNOBIN, N.M., red.; PAYLOVSKIY, Ye.V., red.; TARASOV, O.L., red.; SHNIPER, R.I., red.; AKHAHOV, TS.B., tekhn.red.

[Studies on the production forces of the Buryat-Mongolian A.S.S.R.]

Materialy po isucheniiu proisvoditel'nykh sil Buriat-Mongol'skoi ASSR.

No.2. Ulan-Ude, Buriat-Mongol'skoe knishnoe isd-vo. 1955 507 p.

(MIRA 12:4)

1. Akademiya nauk SSSR. Vostochno-Sibirskiy filial. 2. Sovet po isucheniyu proisvoditel'nykh sil AN SSSR (for Popov, Galaktinov, Tarasov).

3. Zamestitel' predsedatelya Soveta Ministrov Buryat-Mongol'skoy ASSR (for Borisov). 4. Vostochno-Sibirskiy filial AN SSSR (for Buyantuyev).

5. Institut ekonomiki AN SSSR (for Osnobin). 6. Gosplan Buryat-Mongol'skoy ASSR (for Shniper).

(Buryat-Mongolia—Geography, Economic)

### PHASE I BOOK EXPLOITATION 822

### Krotov, V.A.

- Irkutskaya oblast', ekonomiko-geograficheskiy obzor (Irkutskaya oblast'; an Economic and Geographical Survey) [Irkutsk] Irkutskoye knizhnoye izd-vo, 1956. 32 p. 15,000 copies printed.
- Ed. (title page): Silinskiy, P.P.; Ed. (inside book): Shafirova, A.S.; Tech. Ed.: Trushkina, T. M.
- PURPOSE: This booklet is intended for the general public and students interested in the geography and economics of Eastern Siberia.
- COVERAGE: The material presented in this booklet is an expanded version of the text of a public lecture sponsored by the Irkutsk section of the Obshchestvo po resprostraneniyu politicheskikh i nauchnykh maniy (Society for the propagation of Political and Scientific Knowledge) and by the Vostochno-Sibirskiy filial (East Siberian Branch) of the USSR Academy of Sciences. The author discusses briefly the history and geography of Irkutskaya oblast', its weather conditions and natural resources, its population, industry, agriculture and transportation. He foresees a bright future for Irkutskaya oblast' insofar as its industrial potential is concerned. Its planned industrial development is based primarily on the existing and future supply of hydroelectric energy. The Bratsk hydroelectric

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Irkutskaya oblast'; an Economic and Geographical Survey 822

plant alone, which is being constructed on the Angara River, will have a 3,200,000 kw. hr. capacity. Its annual cutput, estimated at 22,000,000,000 kw. hr., will equal the combined output of the Kuybyshev and Stalingrad Rydroelectric stations and will provide energy for the operation of a number of planned industrial plants. Irkutsk-skaya oblast' is rich in gold, coal, muscovite, salt, gypsum, furs and timber. Its timber amounts to 12 percent of the total timber available in the USSR. An oil pipeline is planned from Omsk and Govosibirsk to an Irkutsk refinery now under construction. A number of existing and planned industrial plants and hydroelectric power stations are mentioned. The machine-building industry centers are Irkutsk, Usol'ye, Angarsk and Cheremkhovo. The author also mentions the fact that there is no cement factory in Irkutskaya oblast' and that its network of railroads and paved roads is one of the poorest in the USSR. A chemical industry based on the available minerals and sawmill wastes will become one of the most important local industries. No personalities are mentioned. There are no references.

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